

Radio

AMATEUR

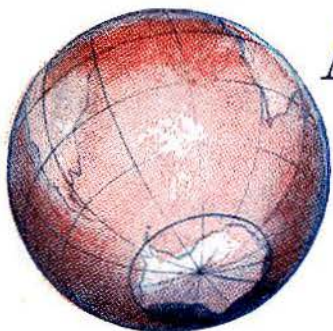
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SPRING 1956



Another Antarctic Expedition calls on **COLLINS** for communication

U.S. Navy Task Force 43 is establishing several bases in Antarctica in conjunction with the International Geophysical Year activities. Two bases will be built next year, one of them at the South Pole. The expedition, appropriately entitled "Operation Deepfreeze," is under the direction of Rear Admiral Richard E. Byrd and commanded by Rear Admiral George Dufek. For radio contact between bases and the outside world, the commercial and amateur communication equipment will be Collins.

The name Collins has figured prominently in polar expeditions since 1925. During Admiral Byrd's expedition of the early 30's, Collins transmitters were used in the first Arctic/Antarctic communication link—from the Byrd Expedition (Antarctic) to a CBS station in Northern Alaska. The Collins equipment is specially packaged for air drop and long sledge journeys. Superior performance and reliability, proven time and again, make Collins the logical choice when the need for radio communication is vital.

Collins

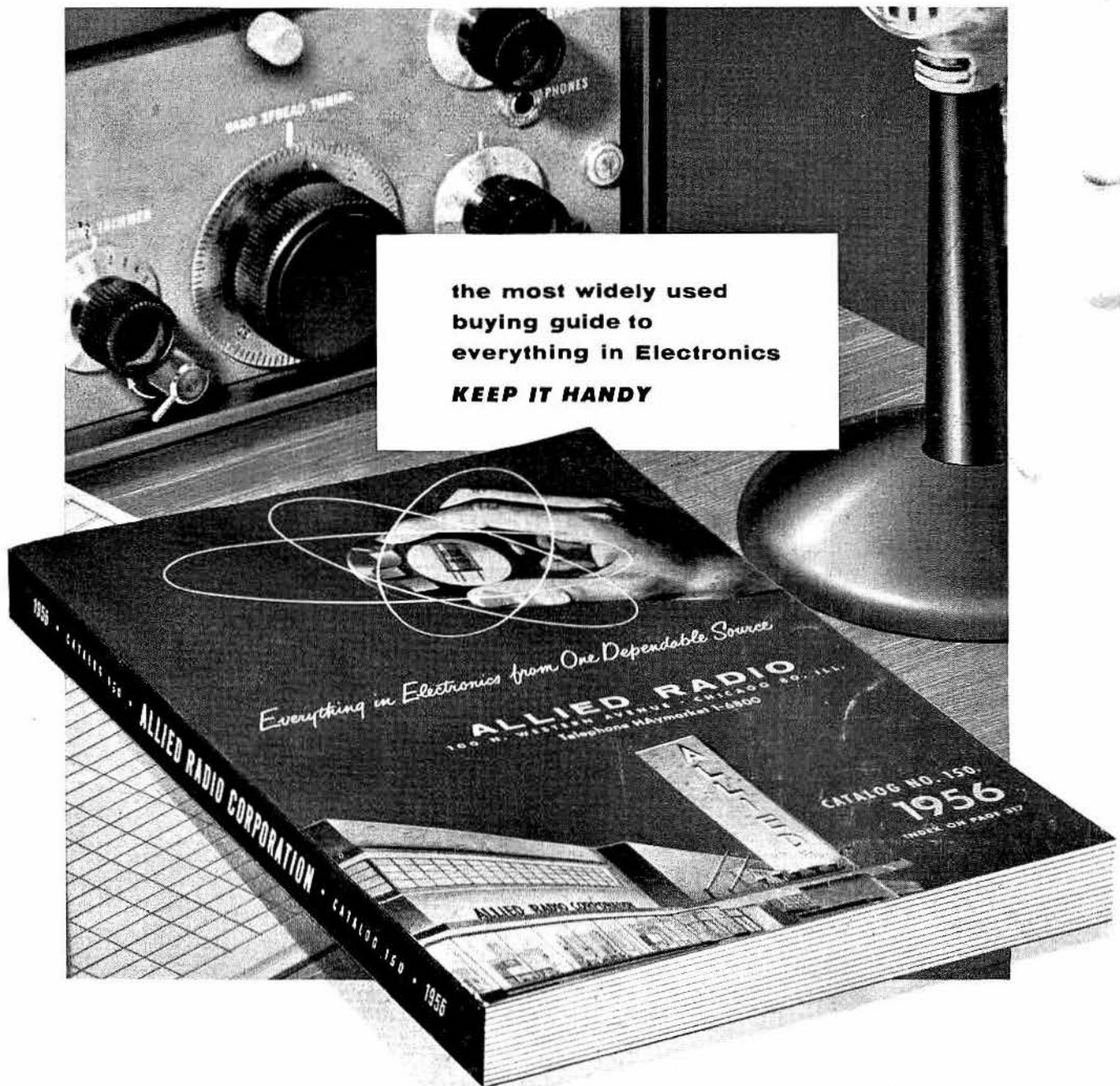
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RADIO AMATEUR CALL BOOK

MAGAZINE

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W9TRD.

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JAMES C. MUNN
2253 DELAWARE DRIVE, CLEVELAND 6
PHONE ERIEVIEW 1-1726

NEW YORK, N. Y.
HERBERT S. OSLOW
SUITE 3951, GRAND CENTRAL TERMINAL
NEW YORK 17, N. Y.
PHONE MURRAY HILL 6-4670

Editor
MRS. CHARLES O. STIMPSON

Founder and Publisher
CHARLES O. STIMPSON
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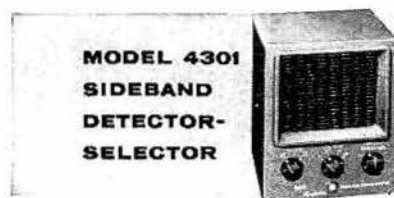
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A. R. R. L. COUNTRIES LIST

Official List for ARRL DX CONTEST and Postwar DXCC

The ARRL Postwar Countries List is the official standard used in connection with the ARRL DX competition and the DX Century Club. To qualify for the DX Century Club Award, an applicant must submit confirmations from at least 100 different countries contacted after November 15, 1945, in accordance with the Postwar DXCC Rules. Copies of the DXCC Rules will be furnished by ARRL on request.

AC3	Sikkim	KB6	Baker, Howland & American Phoenix Islands	VP4	Trinidad & Tobago
AC4	Tibet	KC4	Navassa Island	VP5	Cayman Islands
AP	Pakistan	KC5	Eastern Caroline Islands	VP6	Jamaica
BV	Formosa	KC6	Western Caroline Islands	VP7	Turks & Caicos Islands
C (unofficial)	China	KG1	Palau Islands	VP8	Barbados
C3	Formosa	KG4	(See OX)	VP9	Bahama Islands
C9	Manchuria	KG6	Guantanamo Bay	VP10	Falkland Islands
CE	Chile	KH6	Mariana Islands	VP11	South Georgia
CE7Z, LU-Z, VK1, VP8	Antarctica	KJ6	Hawaiian Islands	VP12	South Orkney Islands
CE8	Easter Island	KL7	Johnston Island	VP13	South Sandwich Islands
CM, CO	Cuba	KM6	Alaska	VP14	South Shetland Islands
CN2, KT1	Tangier Zone	KP4	Midway Islands	VP15	Bermuda Islands
CN8	French Morocco	KP6	Puerto Rico	VP16	Zanzibar
CP	Bolivia	KR6	Palmyra Group, Jarvis Island	VP17	Northern Rhodesia
CR4	Cape Verde Islands	KS4	Ryukyu Islands (e.g., Okinawa)	VP18	Tanganyika Territory
CR5	Portuguese Guinea	KS6	Swan Island	VP19	Kenya
CR6	Principe, Sao Tome	KT1	American Samoa	VP20	Uganda
CR7	Angola	KV4	(See CN2)	VP21	British Somaliland
CR8	Mozambique	KW6	Virgin Islands	VP22	Chagos Islands
CR9	Goa (Portuguese India)	KX6	Wake Island	VP23	Mauritius
CR10	Macau	KZ3	Marshall Islands	VP24	Seychelles
CT1	Portuguese Timor	LA, LB	Canal Zone	VP25	Gilbert & Ellice Islands & Ocean Island
CT2	Portugal	LA, LB	Jan Mayen	VP26	British Phoenix Islands
CT3	Azores Islands	LA, LB	Norway	VP27	Fiji Islands
CX	Madeira Islands	LU	Svalbard (Spitzbergen)	VP28	Fanning Island (Christmas Island)
DJ, DL, DM	Uruguay	LU-Z	Argentina	VP29	Solomon Islands
DU	Germany	LX	(See CE7Z, VP8)	VP30	Tonga (Friendly) Islands
EA	Philippine Islands	LZ	Luxembourg	VP31	Pitcairn Island
EA6	Spain	M1	Bulgaria	VP32	Singapore
EA8	Balearic Islands	MP4	San Marino	VP33	Malaya
EA9	Canary Islands	MP4	Bahrain Island	VP34	Sarawak
EA9	Ini	MP4	Kuwait	VP35	Brunei
EA9	Ric de Oro	MS4	Qatar	VP36	Hong Kong
EA9	Spanish Morocco	MS4	Trucial Oman	VP37	Sultanate of Oman
EA9	Spanish Guinea	OA	(See IS)	VP38	Aden & Socotra
EL	Eire (Irish Free State)	OD5	Peru	VP39	Maldives Islands
EL	Liberia	OE	Lebanon	VP40	India
EQ	Iran (Persia)	OH	Austria	VP41	Laccadive Islands
ET2	Eritrea	OK	Czechoslovakia	VP42	United States of America
ET3	Ethiopia	ON	Belgium	VP43	Mexico
F	France	OO	Belgian Congo	VP44	Laos
FA	Algeria	OX, KG1	Greenland	VP45	Myanmar
FB8	Amsterdam & St. Paul Islands	OY	Faeroes	VP46	Afghanistan
FB8	Keruelen Islands	OZ	Denmark	VP47	Iraq
FB8	Madagascar	PA	Netherlands	VP48	(See FUB)
FC	Corsica	PI	Netherlands West Indies	VP49	Syria
FD8	French Togoland	PI2M	Sint Maarten	VP50	Nicaragua
FE8	French Cameroons	PK1, 2, 3	Java	VP51	Roumania
FF8	French West Africa	PK4	Sumatra	VP52	Salvador
FG	Guadeloupe	PK5	Netherlands Borneo	VP53	Yugoslavia
FG	Saint Martin	PK6	Celebes & Molucca Islands	VP54	Venezuela
FI8	French Indo-China	PK6, 7	Netherlands New Guinea	VP55	Albania
FI8	Viet Nam	PX	Andorra	VP56	Mallia
FK8	New Caledonia	PY	Brazil	VP57	Gibraltar
FK8	(See OE)	PZ	Netherlands Guiana	VP58	Cocos Islands
FM8	French Somaliland	SM	Sweden	VP59	Christmas Island
FN	Martinique	SP	Poland	VP60	Cyprus
FO8	French India	ST	Anglo-Egyptian Sudan	VP61	British North Borneo
FO8	Clipperton Island	SU	Egypt	VP62	Palestine
FO8	French Oceania (e.g., Tahiti)	SV	Greece	VP63	Sierra Leone
FP8	St. Pierre & Miquelon Islands	SV	Crete	VP64	Nigeria
FQ8	French Equatorial Africa	SV5	Dodecanese (e.g., Rhodes)	VP65	Gambia
FR7	Reunion Island	TA	Turkey	VP66	Gold Coast, Togoland
FUB, YJ	New Hebrides	TF	Iceland	VP67	Nyasaland
FW8	Wallis & Futuna Islands	TG	Guatemala	VP68	St. Helena
FY8	French Guiana & Inini	TI	Costa Rica	VP69	Ascension Island
G	England	TI9	Cocos Island	VP70	Tristan da Cunha & Gough Island
GC	Channel Islands	UA1, 3, 4, 6	European Russian	VP71	Southern Rhodesia
GD	Isle of Man	UA9, 6	Socialist Federated Soviet Republic	VP72	Cook Islands
GI	Northern Ireland	UB5	Asiatic Russian S.F.S.R.	VP73	Niue
GM	Scotland	UC2	Ukraine	VP74	New Zealand
GW	Wales	UC2	White Russian Soviet Socialist Republic	VP75	Kermadec Island
HA	Hungary	UD6	Azerbaijan	VP76	British Samoa
HB	Switzerland	UE6	Georgia	VP77	Tokelau (Union Islands)
HC	Ecuador	UG5	Armenia	VP78	Paraguay
HC8	Galapagos Islands	UH8	Turkoman	VP79	Union of South Africa
HE	Liechtenstein	UI8	Uzbek	VP80	Marion Island
HH	Haiti	UI8	Tadzhik	VP81	Southwest Africa
HI	Dominican Republic	UL7	Kazakh	VP82	Swaziland
HK	Colombia	UM8	Kirghiz	VP83	Basutoland
HO	Archipelago of San Andres	UN1	Karelo-Finnish Republic	VP84	Bechuanaland
HL	Korea	UO5	Moldavia	VP85	Monaco
HP	Panama	UP2	Lithuania	VP86	Tunisia
HR	Honduras	UQ2	Latvia	VP87	Cambodia
HS	Siam	UR2	Estonia	VP88	Ceylon
HV	Vatican City	VE, VO	Canada	VP89	Yemen
HZ	Saudi Arabia (Hedjaz & Nejd)	VK	Australia (including Tasmania)	VP90	Israel
I	Italy	VK1	Heard Island	VP91	Libya
I	Trieste	VK1	Macquarie Island	VP92	Saar
IS, MS4	Italian Somaliland	VK9	Papua Territory	VP93	Aldebra Islands
IS	Sardinia	VK9	Territory of New Guinea	VP94	Bhutan
JA, KA	Japan	VK9	Norfolk Island	VP95	Comoro Islands
JY	Jordan	VO	(See VE)	VP96	Fridtjof Nansen Land (Franz Josef Land)
ZO	Netherlands New Guinea	VP1	British Honduras	VP97	Monrovia
K	(See W)	VP2	Leeward Islands	VP98	Nepal
KA	(See JA)	VP2	Windward Islands	VP99	Tannu Tuva
KA6	Bonin & Volcano Islands	VP3	British Guiana	VP100	Tokelau (Union) Islands
				VP101	Wrangel Island



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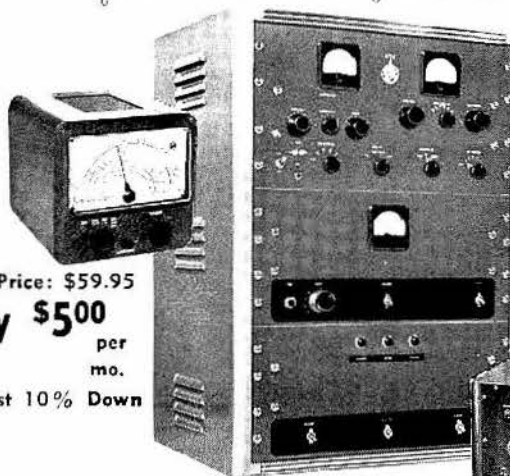
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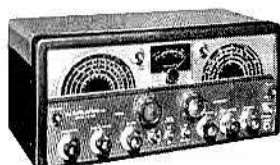
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INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in locating the country when DX calls are heard.

AC3	SIKKIM	KG4	GUANTANAMO BAY, CUBA	VO	NEWFOUNDLAND & LABRADOR
AC4	TIBET	KG6	MARIANA ISLANDS (Guam)	VP1	BRITISH HONDURAS
AP	PAKISTAN	KG6I	IWO JIMA ISLAND	VP2	LEEWARD & WINDWARD ISLANDS
C	CHINA	KG6S	SAIPAN ISLAND	VP3	BRITISH GUIANA
CE	CHILE	KG6T	TINIAN ISLAND	VP4	TRINIDAD & TOBAGO IS.
CM-CO	CUBA	KH6	HAWAIIAN ISLANDS	VP5	JAMAICA, CAYMAN, TURKS & CAICOS IS.
CN2	TANGIER ZONE	KJ6	JOHNSTON ISLAND	VP6	BARBADOS
CN8	FRENCH MOROCCO	KL7	ALASKA	VP7	BAHAMA ISLANDS
CP	BOLIVIA	KM6	MIDWAY ISLAND	VP8	FAKLAND ISLANDS
CR4	CAPE VERDE ISLANDS	KP4	PUERTO RICO		South Georgia, South Orkney and South Shetland Islands.
CR5	PORTUGUESE GUINEA	KP6	PALMYRA & JARVIS ISLANDS	VP9	BERMUDA ISLANDS
CR6	ANGOLA	KR6	OKINAWA	VQ1	ZANZIBAR
CR7	MOZAMBIQUE	KS4	SWAN ISLAND	VQ2	NORTHERN RHODESIA
CR8	GOA (Portuguese India)	KS6	U. S. SAMOA	VQ3	TANGANYIKA TERRITORY
CR9	MACAU	KV4	VIRGIN ISLANDS	VQ4	KENYA
CR10	TIMOR ISLAND (Port.)	KW6	WAKE ISLAND	VQ5	UGANDA
CT1	PORTUGAL	KX6	MARSHALL ISLANDS	VQ6	BRITISH SOMALILAND
CT2	AZORES ISLANDS	KZ5	CANAL ZONE	VQ8	CHAGOS & MAURITIUS ISLANDS
CT3	MADERIA ISLANDS	LA	NORWAY	VQ9	SEYCHELLES
CX	URUGUAY	LU	ARGENTINA	VR1	GILBERT ELLICE & OCEAN ISLANDS
DL	GERMANY	LX	LUXEMBOURG	VR2	FIJI ISLANDS
DU	PHILIPPINE ISLANDS	LZ	BULGARIA	VR3	FANNING ISLAND
EA	SPAIN	MD5	SUEZ CANAL ZONE	VR4	SOLOMON ISLANDS
EA6	BALEARIC ISLANDS	MF2	TRIESTE (British)	VR5	TONGA (Friendly) ISLAND
EA8	CANARY ISLANDS	MP4	BAHRAIN IS. & OMAN	VR6	PITCAIRN ISLAND
EA9	SPANISH MOROCCO	OA	PERU	VS1	SINGAPORE
EI	IRELAND	OH	FINLAND	VS2	MALAYAN UNION
EL	LIBERIA	OE	AUSTRIA	VS4	BRITISH NORTH BORNEO
EQ	IRAN (ex Persia)	OD5	LEBANON	VS5	BRUNEI & SARAWAK
ET2	ERITREA	OK	CZECHOSLOVAKIA	VS6	HONG KONG
ET3	ETHIOPIA	ON	BELGIUM	VS9	ADEN & SOCOIRA ISLANDS
F	FRANCE	OQ5	BELGIAN CONGO	VU	INDIA
FA	ALGERIA	OX	GREENLAND	VU4	LACCADIVE ISLANDS
FB8	MADAGASCAR	OY	FAEROES ISLANDS	VU5	ANDAMAN ISLANDS
FC	CORSICA	OZ	DENMARK	W	UNITED STATES
FD8	FRENCH TOGOLAND	PA, PI	NETHERLANDS	XE	MEXICO
FE8	FRENCH CAMEROONS	PJ	NETH. WEST INDIES	XW8	LAOS
FF8	FRENCH WEST AFRICA	PK1, 2, 3	JAVA	XZ	BURMA
FG8	GUADELOUPE	PK4	SUMATRA	YA	AFGHANISTAN
FI8	FRENCH INDO-CHINA	PK5	BORNEO (Neth. Indies)	YI	IRAQ
FJ8	VIET NAM	PK6	CELEBES & MOLUCCA ISLANDS	YJ	NEW HEBRIDES
FL8	NEW CALEDONIA	PK7	NETHERLAND NEW GUINEA	YK	SYRIA
FM8	FRENCH SOMALILAND	PX	ANDORRA	YN	NICARAGUA
FN	MARTINIQUE	PY	BRAZIL	YO	ROUMANIA
FO8	FRENCH INDIA	PZ	SURINAM	YS	SALVADOR
FP8	TAHITI	SM	SWEDEN	YT, YU	YUGOSLAVIA
FQ8	MIQUELON & ST. PIERRE IS.	SP	POLAND	YV	VENEZUELA
FR8	FRENCH EQUATORIAL AFRICA	ST	SUDAN	ZA	ALBANIA
FU8	REUNION ISLAND	SU	EGYPT	ZB1	MALTA
FY7	NEW HEBRIDES	SV	CRETE & GREECE	ZB2	GIBALTAR
FZ7	FRENCH GUIANA	SV5	DODECANESE ISLANDS	ZC1	TRANSJORDAN
G	ENGLAND	TA	TURKEY	ZC2	COCOS ISLANDS
GC	CHANNEL ISLANDS	TF	ICELAND	ZC3	CHRISTMAS ISLAND
GD	ISLE OF MAN	TG	GUATEMALA	ZC4	CYPRUS
GI	NORTHERN IRELAND	TI	COSTA RICA	ZD1	SIERRA LEONE
GM	SCOTLAND	TT	TANNU TUVA	ZD2	NIGERIA
GW	WALES	UA1-3-4-6	EUROPEAN RUSSIAN SOCIALIST FEDERATED SOVIET REPUBLIC	ZD3	GAMBIA
HA	HUNGARY	UA9-6	ASIATIC RUSSIAN S. F. S. R.	ZD4	GOLD COAST & TOGOLAND
HB	SWITZERLAND	UB5	UKRAINE	ZD6	NYASALAND
HC	ECUADOR	UC5	WHITE RUSSIAN S.S.R.	ZD7	SAINT HELENA
HEI	LIECHTENSTEIN	UD6	AZERBAIJAN	ZD8	ASCENSION ISLAND
HH	HAITI	UF6	GEORGIA	ZD9	TRISTAN DA CUNHA
HI	DOMINICAN REPUBLIC	UG6	ARMENIA	ZE	SOUTHERN RHODESIA
HK	COLOMBIAN REPUBLIC	UH8	TURKOMAN	ZK1	COOK ISLANDS
HL1	KOREA	UI8	UZBEK	ZK2	NIUE
HP	PANAMA	UJ8	TADZHIK	ZL	NEW ZEALAND
HR	HONDURAS	UL7	KAZAKH	ZM	WESTERN SAMOA
HS	SIAM	UMB	KIRGHIZ	ZP	PARAGUAY
HV	VATICAN CITY	UN1	KARELO-FINNISH REPUBLIC	ZS	UNION OF SOUTH AFRICA
HZ	SAUDI ARABIA	UO5	MOLDAVIA	3A2	MONACO
I	ITALY	UP	LITHUANIA	3V8	TUNISIA
K	UNITED STATES	UQ	LATVIA	3WB	CAMBODIA
KA	JAPAN	UR	ESTONIA	4S7	CEYLON
KB6	BAKER, CANTON, ENDERBURY, HOWLAND & PHOENIX ISLANDS	VE	CANADA	4X4	ISRAEL
KC4	ANTARCTICA	VK	AUSTRALIA	5A2	LIBYA
KC6	CAROLINE ISLANDS	VK7	TASMANIA	9S4	SAARLAND
		VK9	PAPUA TERRITORY		

"WORLD'S LEADING HAM LINE"



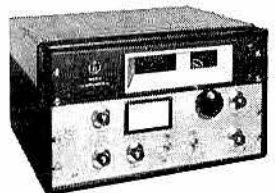
*model SX-100
AM-CW-SSB
receiver
\$295.00*

"Tee-Notch" Filter provides a stable non-regenerative system for the rejection of unwanted heterodyne in SSB. The "Tee-Notch" also produces an effective steepening of the already excellent 50 mc i-f pass band. Upper or lower side band selectable by front panel switch. Notch depth control for maximum null adjustment. Antenna trimmer. Plug-in laboratory type evacuated 100 kc quartz crystal calibrator—included in price. Second conversion oscillator crystal controlled—greater stability through crystal control and additional temperature compensation of high frequency oscillator circuits.



*model HT-30
AM-CW-SSB
transmitter/
exciter
\$495.00*

Built in V.F.O. reads directly in kilocycles. V.F.O. stability is equal to most crystals—.009%. There are also provisions for 1 crystal for fixed frequency operation. Selective filter system is same used by commercial communications companies for reliable sideband selection to assure continued suppression of unwanted side band energy (down 40 db or more) and distortion products. New 50 db range meter for constant monitoring of r-f output and carrier suppression. Voice control system built in with adjustable delay and anti-trip features. Front panel controls allow selection of AM, CW, and upper or lower side band.



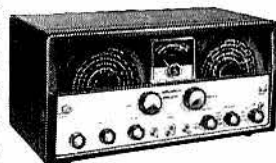
*model HT-31
AM-CW-SSB
linear power
amplifier
\$395.00*

Continuous frequency coverage from 3.5 mc to 30 mc. Pi-network output for efficient harmonic and T.V.I. suppression. Major T.V.I. suppression built in. Does not require an antenna tuner as will feed loads from 50 to 600 ohms. Full metering of all important circuits, including input in watts. Employs two 811-A zero bias triodes in parallel. The input system is designed to be fed from a 50-70 ohm unbalanced line and requires a maximum of 10 watts drive on 80 meters. The grid tank circuit is balanced to provide all band neutralization.



*model SX-96
AM-CW-SSB
double conversion
selectable
side band receiver
\$249.95*

Precision gear drives are used on both main tuning and band spread dials. Double conversion with selectable crystal controlled second oscillators. Selectable side band reception of both suppressed carrier and full carrier transmissions by front panel switch, delayed AVC, CW operation with AVC on or off. Has calibrated bandspread. Double conversion superheterodyne over the entire frequency range. Automatic noise limiter operated from front panel. Carrier level indicator calibrated in "S" units from 1 to 9, decibels to 90 db over S9, microvolts from 1 to 1000 K.



*model SX-99
AM-CW receiver
\$149.95*

Over 1000° of calibrated bandspread over the 10, 11, 15, 20, 40 and 80 meter amateur bands on easy-to-read dial. Separate bandspread tuning condenser, crystal filter, antenna trimmer, "S" meter, one r-f, two i-f stages and new styling. Complete front panel controls: antenna tuning, sensitivity, band selector, main tuning, bandspread tuning, volume, tone, standby, selectivity, crystal phasing, noise limiter.



*model SR-500
complete amateur
radio station
\$1495.00*

A complete radio station in a handsome console cabinet—transmitter/exciter, linear power amplifier, receiver—affording the finest in V.F.O. or crystal. SSB, AM and CW transmission and reception. You need supply only the antenna, microphone and AC power. All the wiring is complete, and external connections are provided for antenna and microphone. A special communications speaker is positioned above the operating shelf. Console is mounted on casters. Three blank panels provide for installation of additional equipment.

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PREFIXES—BY COUNTRIES

The following countries listed in alphabetical order by country show international radio amateur prefixes. Characters in () designate the continent and zone in which the country is located. Abbreviations are as follows: A—Asia, AF—Africa, E—Europe, NA—North America, O—Oceania, SA—South America.

ADEN	(A-21)	VS9	GUAM	(O-27)	KG6	REUNION ISLAND	(AF-39)	FR8
AFGHANISTAN	(A-21)	YA	GUANTANAMO BAY	(NA-8)	KG4	RHODESIA, NORTHERN	(AF-36)	VQ2
ALASKA	(NA-1)	KL7	GUATEMALA	(NA-7)	TG	RHODESIA, SOUTHERN	(AF-36)	ZE
ALBANIA	(E-15)	ZA	GUIANA, BRITISH	(SA-9)	VP3	ROUMANIA	(E-20)	YO
ALGERIA	(AF-33)	FA	GUIANA, FRENCH	(SA-9)	FY7	RYUKYU ISLANDS	(A-25)	KR6
ANDORRA	(E-14)	PX	GUIANA, NETHERLANDS	(SA-9)	PZ			
ANGLO-EGYPTIAN SUDAN	(AF-34)	ST	GUINEA, PORTUGUESE	(AF-35)	CR5	SAARLAND	(E-14)	954
ANGOLA	(AF-36)	CR6	HAITI	(NA-8)	HH	SAINT HELENA	(AF-36)	ZD7
ARGENTINA	(SA-13)	LU	HAWAIIAN ISLANDS	(O-31)	KH6	SAIPAN ISLAND	(O-27)	KG65
ARSENION ISLAND	(AF-36)	ZD8	HONDURAS	(NA-7)	KR	SALVADOR	(NA-7)	YS
AUSTRALIA	(O-29 & 30)	VK	HONG KONG	(A-24)	VS6	SAMOA (U.S.)	(O-32)	KS6
AUSTRIA	(E-15)	OE	HOWLAND ISLAND	(O-31)	KB6	SAMOA (Western)	(O-32)	ZM
AZORES ISLANDS	(E-14)	CT2	HUNGARY	(E-15)	HA	SARAWAK	(O-28)	VS1
						SAUDI ARABIA	(A-21)	HZ
BAHAMA ISLANDS	(NA-8)	VP7	ICELAND	(E-40)	TF	SCOTLAND	(E-14)	GM
BAHRAIN ISLANDS	(AF-21)	MP4	INDIA	(A-21)	VU	SEYCHELLES	(AF-39)	VQ9
BAKER ISLAND	(O-31)	KB6	IRAN	(A-21)	EQ	SIAM	(A-26)	HS
BALEARIC ISLANDS	(E-14)	EA6	IRAQ	(A-21)	YI	SIERRA LEONE	(AF-35)	ZD1
BARBADOS	(NA-8)	VP6	IRELAND	(E-14)	EI	SIKKIM	(A-22)	AC3
BASUTOLAND	(AF-38)	ZS4	ISLE OF MAN	(E-14)	GD	SOCOTRA ISLAND	(AF-37)	VS9
BELGIAN CONGO	(AF-36)	OQ	ISRAEL	(A-20)	4X4	SOLOMON ISLANDS	(O-28)	VR4
BELGIUM	(E-14)	ON	ITALY	(E-15)	I	SOMALILAND, British	(AF-37)	VQ6
BERMUDA ISLANDS	(NA-5)	VP9	TWO JIMA ISLAND	(O-25)	KG61	SOMALILAND, French	(AF-37)	FL6
BOLIVIA	(SA-10)	CP	JAMAICA	(NA-8)	VP5	SOMALILAND, Italian	(AF-37)	IS
BORNEO (Br. North)	(O-28)	VS4	JAN MAYEN ISLAND	(E-40)	OY	SOUTH GEORGIA	(SA-13)	VP3
BORNEO (Neth. Indies)	(O-28)	PK5	JAPAN	(A-25)	KA	SOUTH ORKNEY ISLANDS	(SA-13)	VP8
BRAZIL	(SA-11)	PY	JARVIS ISLAND	(O-31)	KP6	SOUTH SANDWICH ISLANDS	(SA-13)	VP8
BRITISH HONDURAS	(NA-7)	VP1	JAVA	(O-28)	PK1, 2, 3	SOUTH SHETLAND ISLANDS	(SA-13)	VP8
BRUNEI	(O-28)	VS5	JOHNSTON ISLAND	(O-31)	KJ6	SOUTHWEST AFRICA	(AF-38)	ZS3
BULGARIA	(E-20)	LZ						
BURMA	(A-26)	XZ						
CAMEROONS, British	(AF-36)	ZD2	KENYA	(AF-37)	VQ4	SOVIET UNION:		
CAMEROONS, French	(AF-36)	FE8	KERMANDIC ISLANDS	(O-32)	ZL1	EUROPEAN RUSSIAN SOCIALIST		
CAMBODIA	(A-26)	3W8	KOREA	(A-25)	HL1	FEDERATED SOVIET REP.	(E-16)	UA1, 3, 4, 6
CANADA	(NA-1 to 5)	VE				ASIATIC RUSSIAN S.F.S.R.	(A-18, 19)	UA9, 6
CANAL ZONE	(NA-7)	KZ5	LABRADOR	(NA-2)	VO	UKRAINE	(E-16)	UB5
CANARY ISLANDS	(AF-33)	EA8	LACCADIVE ISLANDS	(A-22)	VU4	WHITE RUSSIAN S.S.R.	(E-16)	UC
CANTON ISLAND	(O-31)	KB6	LAOS	(A-26)	XW8	AZERBAIJAN	(A-21)	UD6
CAPE VERDE ISLANDS	(AF-35)	CR4	LEBANON REPUBLIC	(A-20)	OD5	GEORGIA	(A-21)	UF6
CAROLINE ISLANDS	(O-27)	KC6	LEEWARD ISLANDS	(NA-8)	VP2	ARMENIA	(A-21)	UG6
CAYMAN ISLANDS	(NA-8)	VP5	LIBERIA	(AF-35)	EL	TURKMAN	(A-17)	UH8
CELEBES	(O-28)	PK6	LIBYA	(AF-34)	SA2	UZBEK	(A-17)	UI8
CEYLON	(A-22)	VS7	LIECHTENSTEIN	(E-14)	HE1	TADZHIK	(A-17)	UI8
CHAGOS ISLANDS	(AF-39)	VQ8	LITTLE AMERICA	(SA-13)	KC4	KAZAKH	(A-17)	UL7
CHANNEL ISLANDS	(E-14)	GC	LUXEMBOURG	(E-14)	LX	KIRGHIZ	(A-17)	UM8
CHILE	(SA-12)	CE	MACAU	(A-24)	CR9	KARELO-FINNISH REP.	(E-16)	UN1
CHINA	(A-23 & 24)	C	MADAGASCAR	(AF-39)	FE8	MOLDAVIA	(E-16)	UO5
CHRISTMAS ISLAND	(O-29)	ZC3	MADEIRA ISLANDS	(AF-33)	CT3	LITHUANIA	(E-15)	UP
COCOS ISLAND	(NA-7)	TI	MALAYA	(A-25)	VS1, 2	LATVIA	(E-15)	UQ
COCOS ISLANDS	(O-29)	ZC2	MALDIVES ISLANDS	(A-22)	VS9	ESTONIA	(E-15)	UR
COLOMBIA	(SA-9)	HK	MALTA	(E-15)	ZB1	SPAIN	(E-14)	EA
COOK ISLANDS	(O-32)	ZK1	MARIANAS ISLANDS	(O-27)	KG6	SUMATRA	(O-28)	PK4
CORSICA	(E-15)	FC	MARSHALL ISLANDS	(O-31)	KX6	SWAN ISLAND	(NA-7)	KS4
COSTA RICA	(NA-7)	TI	MARTINIQUE	(NA-8)	FM8	SWEDEN	(E-14)	SM
CRETE	(E-20)	SV	MAURITIUS	(AF-39)	VQ8	SWITZERLAND	(E-14)	HB
CUBA	(NA-8)	CM, CO	MEXICO	(NA-6)	XE	SYRIA	(A-20)	YK
CYPRUS	(A-20)	ZC4	MIDWAY ISLAND	(O-31)	KM6			
CZECHOSLOVAKIA	(E-15)	OK	MIQUELON ISLAND	(NA-5)	FP8	TANGANYIKA	(AF-37)	VQ3
			MONACO	(E-14)	3A2	TANGIER ZONE	(AF-33)	CM2
DENMARK	(E-14)	OZ	MOROCCO, French	(AF-33)	CN	TANNU TUVA	(A-23)	TT
DODECANESE ISLANDS	(E-20)	SV5	MOROCCO, Spanish	(AF-33)	EA9	TIBET	(A-23)	AC4
DOMINICAN REPUBLIC	(NA-8)	HI	MOZAMBIQUE	(AF-37)	CR7	TIMOR, Portuguese	(O-28)	CR10
						TINIAN ISLAND	(O-27)	KG6T
ECUADOR	(SA-10)	HC	NAVASSA ISLAND	(NA-8)	KC4	TOGOLAND, French	(AF-35)	FD8
EGYPT	(AF-34)	SU	NETHERLANDS	(E-14)	PA	TONGA (Friendly) ISLANDS	(O-32)	VR5
ELLICE ISLANDS	(O-31)	VR1	NETHERLAND W. INDIES	(SA-9)	FJ	TRANSJORDAN	(A-20)	ZC1
ENGLAND	(E-14)	G	NEW CALEDONIA	(O-32)	FK8	TRINIDAD & TOBAGO	(SA-9)	VP4
ERITREA	(AF-37)	ET2	NEWFOUNDLAND	(NA-5)	VO	TRISTAN da CUNHA & Gough Island	(AF-38)	ZD9
ETHIOPIA	(AF-37)	ET3	NEW GUINEA, Netherlands	(O-28)	PK6	TUNISIA	(AF-33)	3V8
			NEW GUINEA, Territory of	(O-28)	VK9	TURKEY	(A-20)	TA
FAEROES, The	(E-14)	OY	NEW HEBRIDES	(O-32)	FU8, YJ	TURKS & CAICOS ISLANDS	(NA-8)	VP5
FALKLAND ISLANDS	(SA-13)	VP8	NEW ZEALAND	(O-32)	ZL			
FANNING ISLAND	(O-31)	VR3	NICARAGUA	(NA-7)	YN	UGANDA	(AF-37)	VQ5
FIIJI ISLANDS	(O-32)	VR2	NIGERIA	(AF-35)	ZD2	UNION OF SOUTH AFRICA	(AF-38)	ZS
FINLAND	(E-15)	OH	NIUE	(O-32)	ZK2	UNITED STATES of AMERICA	(NA-3, 4, 5)	W, K
FRANCE	(E-14)	F	NORTHERN IRELAND	(E-14)	GI	URUGUAY	(SA-13)	CX
FR. EQUATORIAL AFRICA	(AF-36)	FO8	NORWAY	(E-14)	LA			
FRENCH INDIA	(A-22)	FN	NYASALAND	(AF-37)	ZD6	VATICAN CITY	(E-15)	HV
FRENCH INDO-CHINA	(A-26)	F18	OKINAWA	(A-25)	KR6	VENEZUELA	(SA-9)	YV
FRENCH OCEANIA	(O-32)	FO8	OMAN	(A-21)	MP4	VIET NAM	(A-26)	F18
FRENCH WEST AFRICA	(AF-35)	FF8	PAKISTAN	(A-21, 22)	AP	VIRGIN ISLANDS	(NA-8)	KV4
			PANAMA	(NA-7)	HP			
GAMBIA	(AF-35)	ZD3	PAPUA TERRITORY	(O-28)	VK9	WAKE ISLAND	(O-31)	KW6
GERMANY	(E-14)	DL	PARAGUAY	(SA-11)	ZP	WALES	(E-14)	GW
GIBRALTAR	(E-14)	ZE2	PERU	(SA-10)	OA	WINDWARD ISLANDS	(NA-8)	VP2
GILBERT ISLANDS	(O-31)	VR1	PHILIPPINE ISLANDS	(O-27)	DU			
GOA (Portuguese India)	(A-22)	CR8	PITCAIRN ISLAND	(O-32)	VR6	YUGOSLAVIA	(E-15)	YT, YU
GOLD COAST	(AF-35)	ZD4	POLAND	(E-15)	SP			
GREECE	(E-20)	SV	PORTUGAL	(E-14)	CT1	ZANZIBAR	(AF-37)	VQ1
GREENLAND	(NA-40)	OX	PUERTO RICO	(NA-8)	KP4			
GUADELOUPE	(NA-8)	FG8						

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20 monthly payments of \$14.65
\$295.00 Cash Price

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S53A	9.00	4.45	89.95
S85	12.00	5.94	119.95
SX99	15.00	7.42	149.95
SX96	25.00	12.37	249.95
SX62A	35.00	17.32	349.95
R46B speaker			17.95
HT30	49.50	24.50	495.00
HT31	39.50	19.55	395.00
S94-S95	6.00	2.97	59.95

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POSTAL INFORMATION

The following table shows the postal rates for QSL cards, first class letters and air mail to the United States Possessions and foreign countries. International reply coupons may be purchased at any United States Post office. Upon presentation at a post office in any country except Korea, the coupon will entitle the person presenting it to receive a postage stamp or stamps of that country of sufficient value to prepay an ordinary letter of the first unit of weight addressed for delivery in this country. The column marked "RP" shows the number of international reply coupons required to prepay an air mail letter of the first weight unit from the countries indicated to the United States. The first class rates show the rate for the first ounce. Add four cents for each additional ounce or fraction. The air mail rates are for each half ounce except where indicated.

COUNTRY	QSL cards	First class	Air mail	RP	COUNTRY	QSL cards	First class	Air mail	RP	COUNTRY	QSL cards	First class	Air mail	RP
ADEN	\$.04	\$.08	\$.25	7	FRENCH OCEANIA	.04	.08	.25	3	NORWAY	.04	.08	.15	2
AFGHANISTAN	.04	.08	.25	7	FRENCH SOMALILAND	.04	.08	.25	3	NYASALAND	.04	.08	.25	4
ALASKA	.02	.03	.06*		FRENCH SUDAN	.04	.08	.25	2	OKINAWA	.04	.08	.25	5
ALBANIA	.04	.08	.15	2	FRENCH TOGOLAND	.04	.08	.25	2	PAKISTAN	.04	.08	.25	5
ALGERIA	.04	.08	.15	2	GAMBIA	.04	.08	.25	6	PANAMA	.04	.08	.10	3
ANDORRA	.04	.06	.15	8	GERMANY	.04	.08	.15	2	PAPUA	.04	.08	.25	6
ANGLO-EGYPTIAN SUDAN	.04	.08	.25	4	GIBRALTAR	.04	.08	.15	3	PARAGUAY	.04	.08	.10	3
ANGOLA	.04	.08	.25	4	GI. BERT & ELICE IS.	.04	.08	.25	6	PERU	.04	.08	.10	5
ANGUILLA	.04	.08	.10	6	GOLD COAST COLONY	.04	.08	.25	11	PHILIPPINE IS.	.04	.08	.25	15
ANTIGUA	.04	.08	.10	6	GREECE	.04	.08	.15	2	POLAND	.04	.08	.15	3
ARGENTINA	.04	.08	.10	5	GRENADA, BWI	.04	.08	.10	3	PORTUGAL	.04	.08	.15	3
ARUBA	.04	.08	.10	1	GRENADINES, BWI	.04	.08	.10	3	PORT. EAST AFRICA	.04	.08	.25	3
AUSTRALIA	.04	.08	.25	4	GUADELOUPE	.04	.08	.10	2	PORTUGUESE GUINEA	.04	.08	.25	3
AUSTRIA	.04	.08	.15	2	GUAM	.02	.03	.06*		PORTUGUESE INDIA	.04	.08	.25	3
AZORES	.04	.08	.15	3	GUATEMALA	.04	.08	.10	2	PORTUGUESE TIMOR	.04	.08	.25	5
BAHAMAS	.04	.08	.10	2	HAITI	.04	.08	.10	2	PORTUGUESE W. AFRICA	.04	.08	.25	3
BAHRAIN ISLANDS	.04	.08	.25	4	HAWAII	.02	.03	.06*		PUERTO RICO	.02	.03	.06*	
BALEARIC ISLANDS	.04	.08	.15	8	HONDURAS	.04	.08	.10	2	REDONDA, BWI	.04	.08	.10	6
BALUCHISTAN	.04	.08	.25	5	HONG KONG	.04	.08	.25	5	REUNION ISLAND	.04	.08	.25	3
BARBADOS	.04	.08	.10	2	HUNGARY	.04	.08	.15	3	RIO DE ORO	.04	.08	.25	10
BARBUDA	.04	.08	.10	2	ICELAND	.04	.08	.15	2	ROMANIA	.04	.08	.15	5
BECHUANALAND	.04	.08	.25	6	INDIA	.04	.08	.25	6	RYUKYU ISLANDS	.04	.08	.25	5
BELGIAN CONGO	.04	.08	.25	3	INDO-CHINA	.04	.08	.25	3	ST CHRISTOPHER, BWI	.04	.08	.10	6
BELGIUM	.04	.08	.15	2	INDONESIA	.04	.08	.25	4	ST HELENA	.04	.08	.25	6
BERMUDA	.04	.08	.10	3	IRAN	.04	.08	.25	5	ST KITS, BWI	.04	.08	.10	6
BOLIVIA	.04	.08	.10	3	IRAQ	.04	.08	.25	3	ST LUCIA, BWI	.04	.08	.10	4
BRAZIL	.04	.08	.10	3	ISRAEL	.04	.08	.25	2	ST PIERRE & MIQUELON	.04	.08	.08	3
BRITISH CAMEROONS	.04	.08	.25	6	ITALY	.04	.08	.15	2	ST VINCENT, BWI	.04	.08	.10	4
BRITISH GUIANA	.04	.08	.10	4	IVORY COAST	.04	.08	.25	2	SALVADOR	.04	.08	.10	2
BRITISH HONDURAS	.04	.08	.10	2	JAMAICA	.04	.08	.10	2	SAMOA (Br.)	.04	.08	.25	5
BRITISH SOMALILAND	.04	.08	.25	8	JAPAN	.04	.08	.25	4	SAN MARINO	.04	.08	.15	2
BR. VIRGIN ISLANDS	.04	.08	.10	6	JORDAN	.04	.08	.25	5	SARAWAK	.04	.08	.25	6
BRUNEI	.04	.08	.25	6	KENYA & UGANDA	.04	.08	.25	5	SAUDI ARABIA	.04	.08	.25	6
BULGARIA	.04	.08	.15	3	KOREA	.04	.08	.25	5	SCOTLAND	.04	.08	.15	6
BURMA	.04	.08	.25	5	LABUAN	.04	.08	.25	6	SENEGAL	.04	.08	.25	2
CANADA	.02	.03	.06*	2	LATVIA	.04	.08	.15	4	SEYCHELLES	.04	.08	.25	3
CANAL ZONE	.02	.03	.06*		LEEANON	.04	.08	.25	3	SIERRA LEONE	.04	.08	.25	8
CANARY ISLANDS	.04	.08	.15	8	LIBERIA	.04	.08	.25	5	SOLOMON ISLANDS	.04	.08	.25	5
CANTON ISLAND	.02	.03	.06*		LIBYA	.04	.08	.15	5	SOMALIA	.04	.08	.25	5
CAPE VERDE ISLANDS	.04	.08	.25	3	LIECHTENSTEIN	.04	.08	.15	2	SOUTHERN RHODESIA	.04	.08	.25	6
CAYMAN ISLANDS	.04	.08	.10	2	LITHUANIA	.04	.08	.15	4	SOUTHWEST AFRICA	.04	.08	.25	6
CEYLON	.04	.08	.25	7	LUXEMBOURG	.04	.08	.15	2	SPAIN	.04	.08	.15	8
CHILE	.04	.08	.10	6	MACAO	.04	.08	.25	3	SPANISH GUINEA	.04	.08	.25	10
CHINA	.04	.08	.25	4	MADAGASCAR	.04	.08	.25	4	STRAIT SETTLEMENTS	.04	.08	.25	5
COLOMBIA	.04	.08	.10	7	MADEIRA ISLANDS	.04	.08	.15	2	SURINAM	.04	.08	.10	3
COOK ISLANDS	.04	.08	.25	6	MALAYA	.04	.08	.25	5	SWEDEN	.04	.08	.15	2
CORSCICA	.04	.08	.15	2	MALTA	.04	.08	.15	4	SWITZERLAND	.04	.08	.15	2
COSTA RICA	.04	.08	.10	3	MANCHURIA	.04	.08	.25	4	SYRIA	.04	.08	.25	3
CUBA	.04	.08	.10	3	MARTINIQUE	.04	.08	.10	2	TAIWAN (Formosa)	.04	.08	.25	4
CURACAO	.04	.08	.10	1	MAURITANIA	.04	.08	.25	2	TANGANYIKA	.04	.08	.25	5
CYPRUS	.04	.08	.25	3	MAURITIUS	.04	.08	.25	3	THAILAND	.04	.08	.25	3
CYRENAICA	.04	.08	.15	5	MEXICO	.02	.03	.06*	2	TIBET	.04	.08	.25	4
CZECHOSLOVAKIA	.04	.08	.15	2	MIDWAY ISLAND	.02	.03	.06*		TONGA ISLANDS	.04	.08	.25	5
DAHOMY	.04	.08	.25	2	MONACO	.04	.08	.15	2	TRIESTE	.04	.08	.15	2
DENMARK	.04	.08	.15	2	MONTERRAT, BWI	.04	.08	.10	6	TRINIDAD	.04	.08	.10	3
DODECANESE IS.	.04	.08	.15	2	MOROCCO, (Br. & Fr.)	.04	.08	.15	2	TRIPOLITANIA	.04	.08	.15	5
DOMINICA	.04	.08	.10	4	MOROCCO, (Spain)	.04	.08	.15	8	TRISTAN DA CUNHA	.04	.08	.25	5
DOMINICAN REPUBLIC	.04	.08	.10	2	MOZAMBIQUE	.04	.08	.25	3	TUNISIA	.04	.08	.15	2
ECUADOR	.04	.08	.10	2	NAURU ISLAND	.04	.08	.25	3	TURKEY	.04	.08	.15	3
EGYPT	.04	.08	.15	2	NETHERLANDS	.04	.08	.15	3	TURKS ISLAND	.04	.08	.10	3
EIRE (Ireland)	.04	.08	.15	5	NETHERLANDS W. INDIES	.04	.08	.10	1	UGANDA	.04	.08	.25	5
ENGLAND	.04	.08	.15	6	NEVIS	.04	.08	.10	6	UNION OF SOUTH AFRICA	.04	.08	.25	6
ERITREA	.04	.08	.25	4	NEW CALEDONIA	.04	.08	.25	3	URUGUAY	.04	.08	.10	4
ESTONIA	.04	.08	.15	4	NEWFOUNDLAND	.02	.03	.06*		U.S.S.R.	.04	.08	.15	4
ETHIOPIA	.04	.08	.25	3	NEW GUINEA	.04	.08	.25	6	U. S. VIRGIN IS.	.02	.03	.06*	
FALKLAND ISLANDS	.04	.08	.10	2	NEW HEBRIDES	.04	.08	.25	3	VATICAN CITY	.04	.08	.15	2
FAEROES ISLANDS	.04	.08	.15	2	NEW ZEALAND	.04	.08	.25	3	VENEZUELA	.04	.08	.10	3
FII ISLANDS	.04	.08	.25	6	NICARAGUA	.04	.08	.10	3	WAKE ISLAND	.02	.03	.06*	
FINLAND	.04	.08	.15	3	NIGER	.04	.08	.25	2	YEMEN	.04	.08	.25	
FRANCE	.04	.08	.15	3	NIGERIA	.04	.08	.25	6	YUGOSLAVIA	.04	.08	.15	2
FRENCH CAMEROONS	.04	.08	.25	3	NORTH BORNEO	.04	.08	.25	7	ZANZIBAR	.04	.08	.25	6
FRENCH EQ. AFRICA	.04	.08	.25	3	NORTHERN IRELAND	.04	.08	.15	6					
FRENCH GUIANA	.04	.08	.10	2	NORTHERN RHODESIA	.04	.08	.25	7					
FRENCH GUINEA	.04	.08	.25	2										
FRENCH INDIA	.04	.08	.25	2										

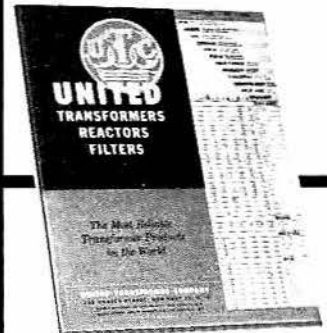
* rate per ounce.

QSL cards can be sent to any country in the world by air mail for 10 cents.

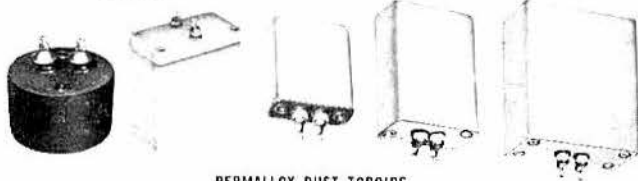
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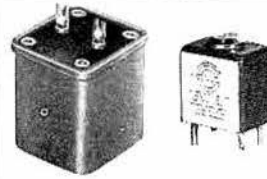
A quarter century of specialized experience and original research has gone into the development of UTC catalog items. Covering the range from tenth ounce units to others weighing hundreds of pounds, UTC stock items are available for virtually every application in the electronics field. Each of these items carries a plus value . . . UTC RELIABILITY, highest in the field.



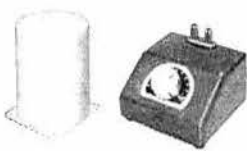
Write for your Copy
of Catalog '56



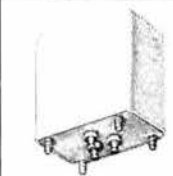
PERMALLOY DUST TOROIDS
Maximum Accuracy and Stability



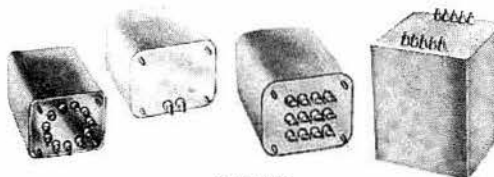
VARIABLE INDUCTORS
Standard and Hermetic



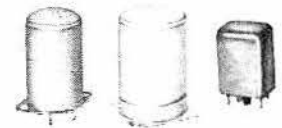
LOW FREQUENCY INDUCTORS
and INDUCTANCE DECADES



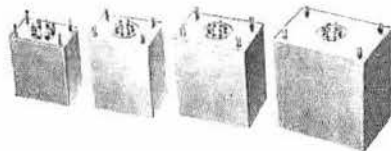
LOW PASS, HIGH PASS
and BAND PASS
FILTERS . . . HERMETIC



HERMETIC
Power, Plate, Filament Transformers and Reactors



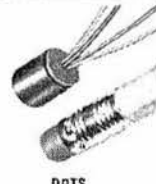
HERMETIC AUDIO COMPONENTS
for Every Application



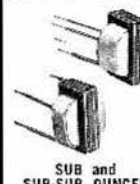
MAGNETIC AMPLIFIERS . . . HERMETIC



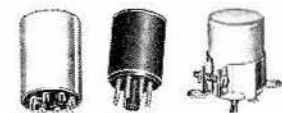
PULSE
TRANSFORMERS



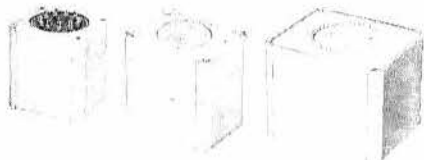
DOTS
Transistor Transformers
Smallest Size-Highest Power



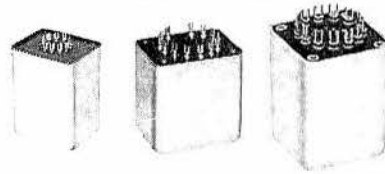
SUB and
SUB-SUB GUNGER
TRANSFORMERS
Audio Miniatures



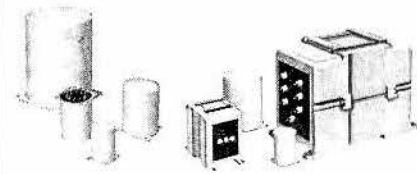
GUNGER and PLUG-IN UNITS



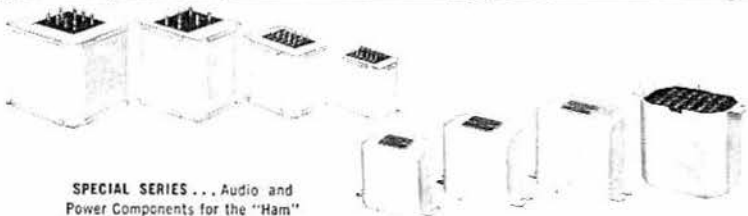
LINEAR STANDARD SERIES
Tops in Fidelity



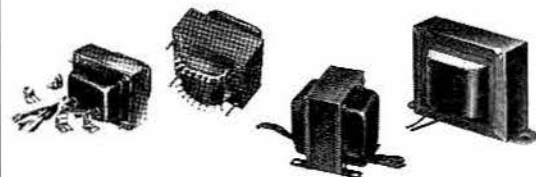
HIPERMALLOY and ULTRA COMPACT
High Fidelity Favorites



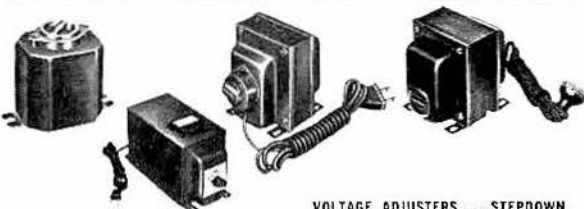
COMMERCIAL GRADE AUDIO and POWER COMPONENTS
for Industrial Use



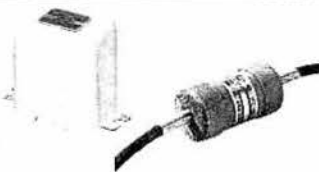
SPECIAL SERIES . . . Audio and
Power Components for the "Ham"



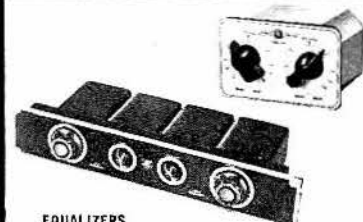
REPLACEMENT TYPES



VOLTAGE ADJUSTERS . . . STEPDOWN
and ISOLATION TRANSFORMERS



PHOTOFLASH TRANSFORMERS
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EQUALIZERS

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Great Circle Chart of the World Centered on THE UNITED STATES



To find the great circle bearing to any point in the world from the center of the United States, draw a straight line from the star and note the reading in degrees on the outer scale. The bar scale at the bottom of the chart can be used to determine the distance in statute miles. For bearings to the nearest degree reference is invited to the table on the opposite Page. The outlines of this chart were prepared by the U.S. Coast and Geodetic Survey.

GREAT CIRCLE BEARINGS

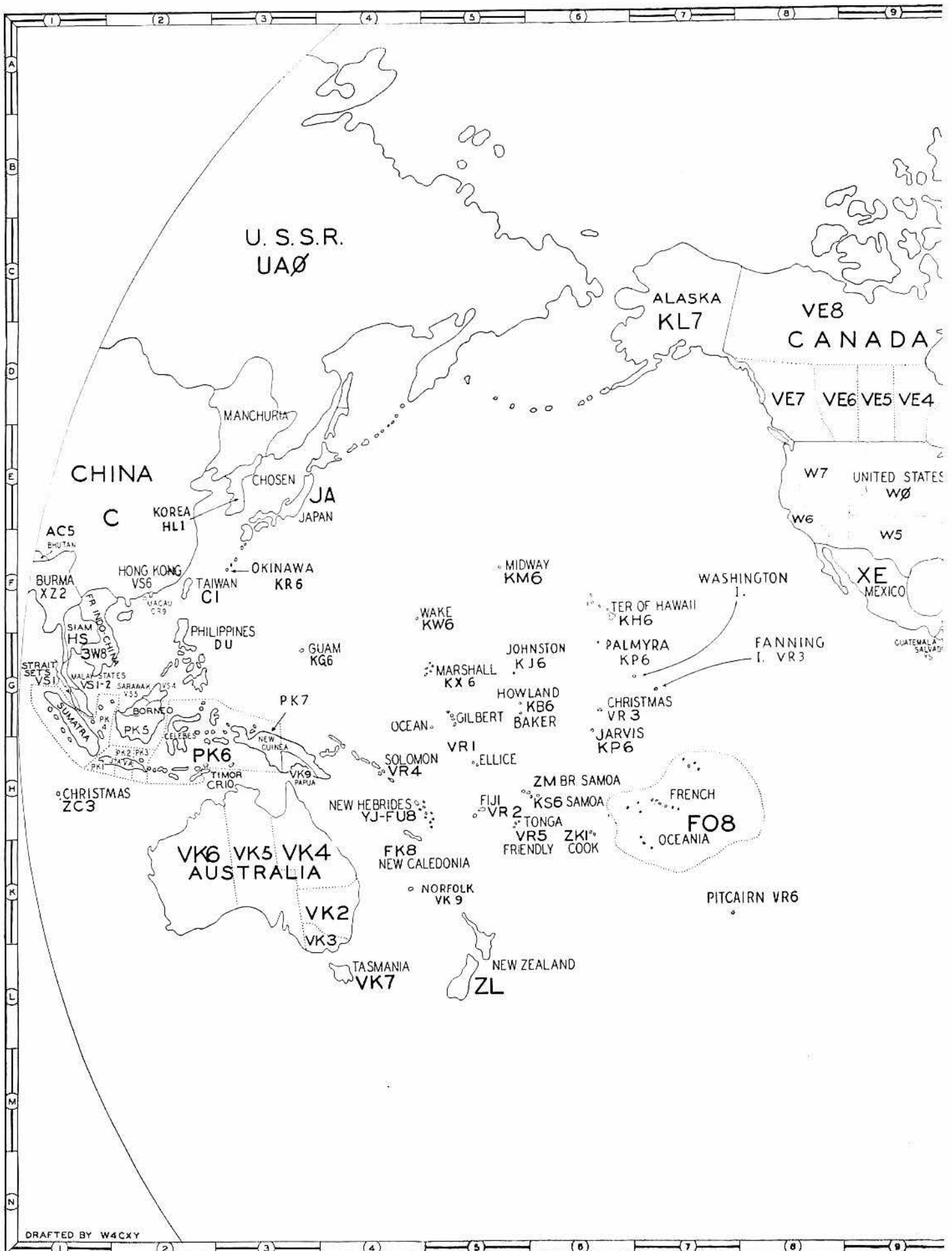
FROM THE CENTER OF THE

UNITED STATES

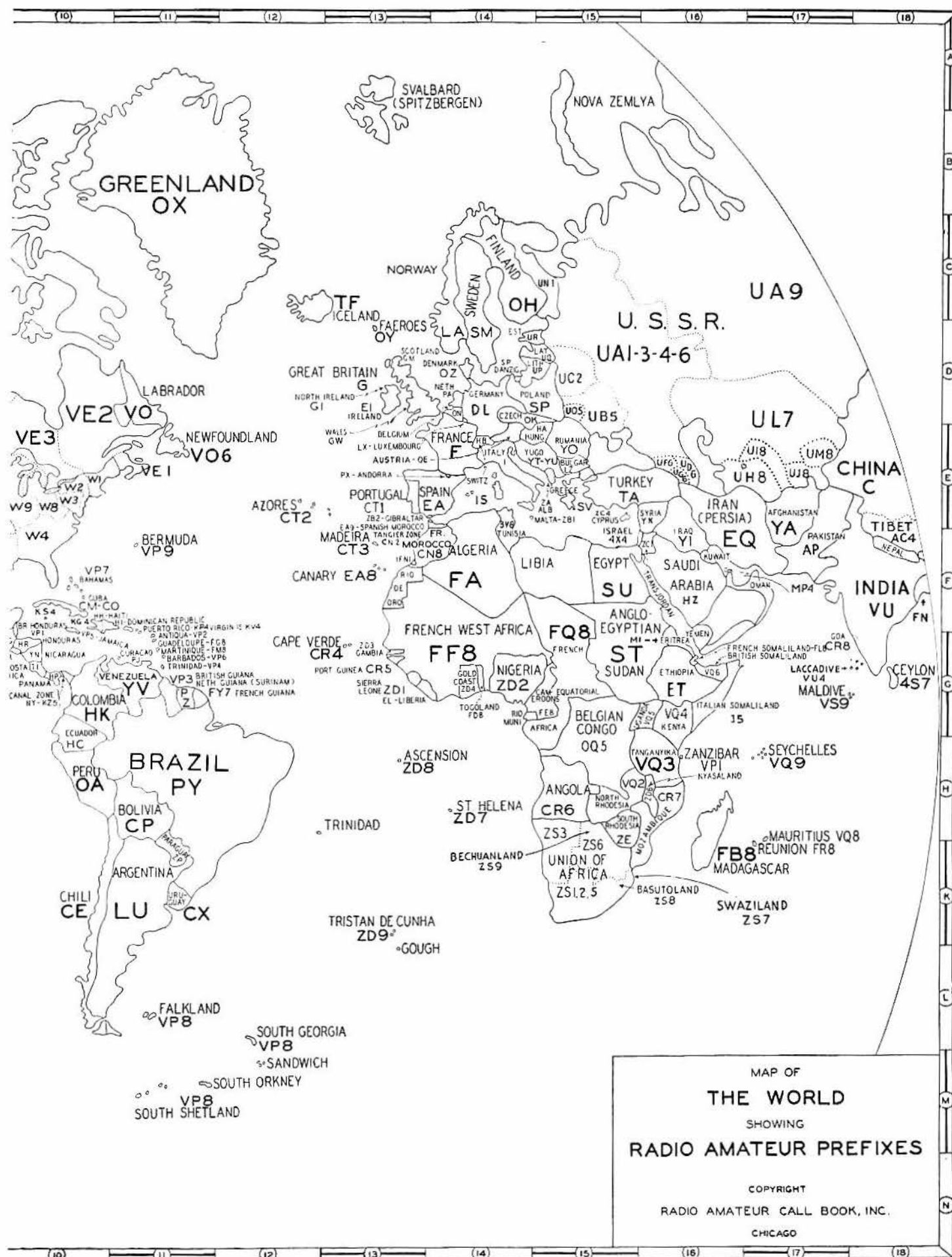
The table below shows the great circle bearing in degrees from the exact center of the United States to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U. S. Coast and Geodetic Survey.

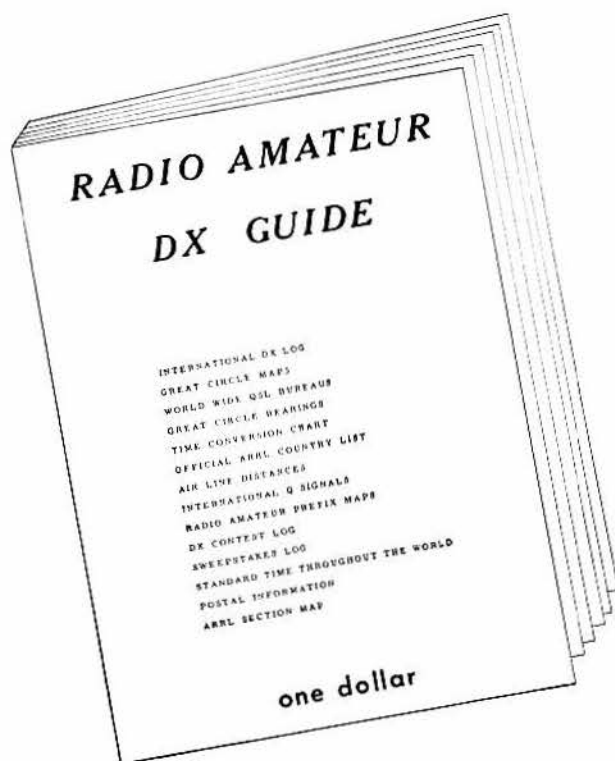
Prefix	Country	Bearing	Prefix	Country	Bearing	Prefix	Country	Bearing
AG3	SIKKIM	352	KL7	ALASKA, Anchorage	322	VK3	Melbourne	250
AG4	TIBET, Lhasa	350		Fairbanks	329	VK4	Brisbane	207
AG2	TRIESTE	41	KM6	MIDWAY ISLAND	288	VK5	Darwin	287
AP	PAKISTAN, Karachi	13	KP4	PUERTO RICO	117	VK6	Perth	274
AR8	LEBANON, Beyrouth	36	KP6	PALMYRA ISLAND	255	VK7	TASMANIA, Hobart	243
C	CHINA, Chungking	335	KR6	OKINAWA ISLAND	318	VK9	NORFOLK ISLAND	248
	Pekin	333	KS4	SWAN ISLAND	144		PAPUA TERRITORY, Port Moresby	277
	Shanghai	325	KS5	SAMOA	248	VO	NEWFOUNDLAND, St. John's	59
CE	CHILE, Santiago	156	KV4	VIRGIN ISLANDS	115	VP1	BRITISH HONDURAS	152
CM	CUBA, Havana	135	KW6	WAKE ISLAND	287	VP2	LEEWARD and WINDWARD ISLANDS	112
CH8	FRENCH MOROCCO, Casablanca	62	KX6	MARSHALL ISLANDS	276	VP3	BRITISH GUIANA, Georgetown	120
CP	BOLIVIA, La Paz	146	KZ5	CANAL ZONE	145	VP4	TRINIDAD	120
CR4	CAPE VERDE ISLANDS	87	LA	NORWAY, Oslo	29	VP5	JAMAICA	127
CR5	PORTUGUESE GUINEA	84	LI	LIBYA, Tripoli	51	VP6	BARBADOS ISLANDS	112
CR6	ANGOLA, Nova Lisboa	83	LU	ARGENTINA, Buenos Aires	147	VP7	BAHAMAS ISLANDS	121
CR7	MOZAMBIQUE, Lourenco Marques	85	LX	LUXEMBOURG	42	VP8	FALKLAND ISLANDS	156
	Mozambique	65	LZ	BULGARIA, Sofia	38		South Georgia Island	147
CR8	GOA	7	MB9	AUSTRIA, Vienna	38		South Orkney Islands	155
CR9	MACAU	327	MD1	CIRENAICA	46	VP9	BERMUDA	94
CR10	TIMOR ISLAND	295	MD2	TRIPOLITANIA	51	VQ1	ZANZIBAR	57
CT1	PORTUGAL, Lisbon	59	MD3	ERITREA, Asmara	44	VQ2	NORTHERN RHODESIA, Lusaka	77
CT2	AZORES ISLANDS	67	MD4	BRITISH SOMALILAND	40	VQ3	TANGANYIKA, Dar-Es-Salaam	59
CT3	MADERIA ISLANDS	68	MD5	SUEZ CANAL ZONE	40	VQ4	KENYA, Nairobi	56
CX	URUGUAY, Montevideo	145	MD6	IRAQ, Baghdad	30	VQ5	UGANDA	59
DL	GERMANY, Berlin	37	MD7	CYPRUS	37	VQ6	BRITISH SOMALILAND	40
DU	PHILIPPINE ISLANDS, Manila	316	MF2	TRIESTE (British)	41	VQ8	CHAGOS ISLANDS	14
EA	SPAIN, Madrid	54	M13	ERITREA, Asmara	44		Mauritius	51
EAS	BALEARIC ISLANDS	52	MP4	BAHRAIN ISLANDS and OMAN	28	VQ9	SEYCHELLES	38
EAS	CANARY ISLANDS	71	OA	PERU, Lima	153	VR1	GILBERT ISLANDS	267
EAS	SPANISH MOROCCO	59	OH	FINLAND, Helsinki	25	VR2	FIJI ISLANDS	251
EI	IRELAND, Dublin	43	OE	AUSTRIA, Vienna	38	VR3	FANNING ISLAND	252
EK1	TANGIER ZONE	60	OK	CZECHOSLOVAKIA, Prague	38	VR4	SOLOMON ISLANDS	270
EL	LIBERIA, Monrovia	86	ON	BELGIUM, Brussels	41	VR5	TONGA ISLANDS	244
EP	IRAN, Tehran	23	OQ5	BELGIAN CONGO, Elisabethville	74	VR6	PITCAIRN ISLAND	208
ET	ETHIOPIA, Addis Ababa	48		Leopoldville	76	VS	MALAYA, Singapore	326
F	FRANCE, Paris	44		Stanleyville	65	VS4	BRITISH NORTH BORNEO	314
FA	ALGERIA, Algiers	54	OX	GREENLAND, Godthaab	34	VS5	BRUNEI and SARAWAK	316
FBB	MADAGASCAR, Antsirana	53	OY	FAEROES ISLANDS	34	VS6	HONG KONG	326
	Tananarive	63	OZ	DENMARK, Copenhagen	34	VS7	CEYLON	1
FC	CORSICA	46	PA	NETHERLANDS, Amsterdam	40	VS9	ADEN, Aden	39
FDB	TOGOLAND	77	PK	JAVA, Batavia	317	VU	INDIA, Bombay	8
FDB	FRENCH CAMEROONS	72	PK4	SUMATRA	328		Calcutta	351
FDB	FRENCH WEST AFRICA, Dakar	84	PK5	BORNEO	314		Delhi	3
FDB	GUADELOUPE	114	PK6	CELEBES ISLAND	305	VU4	LACCADIVE ISLANDS	9
F10	FRENCH INDO CHINA, Saigon	328	PK7	NETHERLAND NEW GUINEA	290	VU5	ANDAMAN ISLANDS	345
FK0	NEW CALEDONIA, Noumea	254	PX	ANDORRA	50	XE	MEXICO, Mexico City	178
FL0	FRENCH SOMALILAND, Djibouti	42	PY	BRAZIL, Natal	112	XZ	BURMA, Rangoon	342
FMB	MARTINIQUE	117		Rio de Janeiro	129	YA	AFGHANISTAN, Kandahar	13
FDB	FRENCH OCEANIA, Tahiti	229	PZ	SURINAM, (Netherlands Guiana)	121	YI	IRAQ, Baghdad	30
FDB	MIQUELON and ST. PIERRE IS.	64	SM	SWEDEN, Stockholm	29	YJ	NEW HEBRIDES	260
FDB	FRENCH EQUATORIAL AFRICA	65	SP	POLAND, Warsaw	33	YK	SYRIA	34
FDB	REUNION ISLAND	55	ST	ANGLO-EGYPTIAN SUDAN, Khartoum	49	YN	NICARAGUA	150
FT4	TUNISIA, Tunis	50	SU	EGYPT, Cairo	41	YO	ROMANIA, Bucharest	36
FDB	NEW HEBRIDES	259	SV	GREECE, Athens	41	YS	SALVADOR, San Salvador	156
FDB	FRENCH GUIANA, Cayenne	117	SV5	DODECANESE ISLANDS	40	YT	YUGOSLAVIA, Belgrade	39
G	ENGLAND, London	43	TA	TURKEY, Ankara	35	YV	VENEZUELA, Caracas	126
GC	CHANNEL ISLANDS	45	TF	ICELAND, Reykjavik	35	ZA	ALBANIA, Tirana	41
GD	ISLE OF MAN	41	TG	GUATEMALA, Guatemala City	151	ZB1	MALTA	48
GI	NORTHERN IRELAND, Belfast	42	TI	COSTA RICA	150	ZB2	GIBRALTAR	58
GM	SCOTLAND, Glasgow	40	TR	LIBYA, Tripoli	51	ZB3	TRANSJORDAN	36
GW	WALES	43	TT	TANNU TUVA, Kyzyl Khot	351	ZC2	COCOS ISLANDS	327
HA	HUNGARY, Budapest	37	U	SOVIET UNION, Moscow	23	ZC3	CHRISTMAS ISLAND	315
HB	SWITZERLAND, Bern	43	UB5	UKRAINE	30	ZC4	CYPRUS	37
HC	ECUADOR, Quito	148	UC5	WHITE RUSSIA	25	ZD1	SIERRA LEONE, Freetown	81
HCB	GALAPAGOS ISLANDS	167	UD6	AZERBAIJAN	23	ZD2	NIGERIA, Lagos	76
HE1	LEICHTENSTEIN	43	UF6	GEORGIA	28	ZD3	GAMBIA	84
HN	HAITI, Port-au-Prince	124	UG6	ARMENIA	26	ZD4	GOLD COAST, Accra	80
HI	DOMINICAN REPUBLIC	122	UH8	TURKOMAN	19	ZD6	NTASALAND	69
HK	COLOMBIA, Bogota	140	UI8	UZBEK	12	ZD7	ST. HELENA	100
HLI	KOREA, Seoul	324	UJ8	TADZHIK	7	ZD8	ASENCION ISLAND	99
HP	PANAMA	145	UL7	KAZAKH	10	ZD9	TRISTAN da CUNHA	122
HR	HONDURAS	152	UM8	KIRGHIZ	5	ZE	SOUTHERN RHODESIA, Salisbury	77
HS	SIAM, Bangkok	336	UNI	KARELO-FINNISH REPUBLIC	20	ZK1	COOK ISLANDS	234
HV	VATICAN CITY	45	UO5	MOLDAVIA	32	ZK2	NIUE	242
HZ	SAUDI ARABIA	34	UP	LITHUANIA	30	ZL1	NEW ZEALAND, Auckland	238
I	ITALY, Rome	45	UQ	LATVIA	29	ZL2	Wellington	234
IS	SARDINIA	48	UR	ESTONIA	27	ZL3	Christchurch	233
JA	JAPAN, Tokyo	315	VE1	CANADA, Halifax	68	ZL4	Dunedin	231
KB6	BAKER ISLAND	262	VE2	Montreal	64	ZM6	SAMOA (British)	248
KC6	CAROLINE ISLANDS	260	VE3	Toronto	77	ZP	PARAGUAY, Asuncion	141
KQ4	GUANTANAMO BAY, Cuba	126	VE4	Winnipeg	10	ZS	UNION OF SOUTH AFRICA, Capetown	104
KQ6	GUAM	297	VE5	Saskatoon	339		Durban	91
KG61	IWO JIMA ISLAND	317	VE6	Edmonton	330		Johannesburg	89
KG62	SAIPAN ISLAND	297	VE7	Vancouver	308	ZS3	SOUTH WEST AFRICA, Windhoek	52
KG6T	TINIAN ISLAND	297	VE8	Fort Nelson	333	ZS7	SWAZILAND	87
KH6	HAWAIIAN ISLANDS, Honolulu	267	VK1	HEARD ISLAND	163	ZS8	BAUTOLAND	93
KJ6	JOHNSTON ISLAND	270	VK2	AUSTRALIA, Sydney	252	ZS9	BECHUANALAND	87

WORLD MAP SHOWING



RADIO AMATEUR PREFIXES





A HANDY REFERENCE BOOK FOR ALL RADIO AMATEURS

The RADIO AMATEUR DX GUIDE

fills a definite need for a handy book to have around the ham shack for reference purposes. Printed on a good grade of paper each page is perforated so that it can be easily removed for mounting under glass or on the wall.

JUST LOOK AT THIS TABLE OF CONTENTS

INTERNATIONAL DX LOG

This log lists all countries having licensed radio amateurs by prefix. Ample space is provided to make a permanent record of all DX stations worked; showing the date, call letters, frequency and whether a QSL card has been sent or received. All countries that qualify for DXCC are listed.

WORLD MAP SHOWING RADIO AMATEUR PREFIXES

This is an outline map of the world with all radio amateur prefixes. Total size 15 x 10 inches. Excellent for mounting.

GREAT CIRCLE MAPS

Three great circle maps are included centered on San Francisco, California; the center of the United States and New York, N. Y.

GREAT CIRCLE OUTLINE CHART OF THE UNITED STATES

Published by the U. S. Coast and Geodetic Survey, it is possible to determine the great circle bearing between any two points in the United States, with the proper use of this map.

PREFIX MAP OF SOUTH AMERICA

An outline map of South America showing the number or letter designating all sections and countries. Very handy for determining just what part of each country is heard or worked.

ARRL SECTION MAP

One copy of this map is included which shows all of the ARRL sections in the United States. These maps can be used for checking off the different sections worked during ARRL contests.

GREAT CIRCLE BEARING TABLES

Each of these bearing tables are printed on a separate sheet which is perforated for easy removal of the one nearest to your location. Over 250 bearings are shown on each table and where cities are listed the bearing to the nearest degree is given. Bearings are included on the following points: Atlanta, Ga.; Boston, Mass.; Buffalo, N. Y.; Chicago, Ill.; Center of the USA; Denver, Colo.; Detroit, Mich.; Houston, Tex.; Jacksonville, Fla.; Kansas City, Mo.; Los Angeles, Cal.; Louisville, Ky.; Miami, Fla.; Minneapolis, Minn.; New Orleans, La.; San Francisco, Cal.; Seattle, Wash.

GREAT CIRCLE BEARINGS TO WORLD WIDE METROPOLITAN AREAS

Exact bearings are shown in this table to the nearest degree, from 39 cities in the USA to the same number of metropolitan areas throughout the world.

GREAT CIRCLE BEARINGS IN THE UNITED STATES

This table includes bearings between 39 large cities in the USA. Accurate to the nearest degree it is a valuable aid for VHF work as well as handling traffic through QRM.

TIME CONVERSION TABLE

With this time conversion table you can determine the time in any time zone in the world. Also provision is made to know whether it is today or tomorrow at the place heard or worked.

TIME THROUGHOUT THE WORLD

This page includes a list of time zones of countries the world over and an explanation of the International Time Zone System. Compiled by the National Bureau of Standards.

AIR LINE DISTANCES IN THE UNITED STATES

Arranged in alphabetical order, this page shows the air line distance between 39 cities in the United States. Compiled from information prepared by the U. S. Coast and Geodetic Survey.

INTERNATIONAL Q SIGNALS

All of the "Q" signals have been arranged on one page for instant reference.

POSTAL INFORMATION

This page shows the postal rates for QSL cards, first class and air mail letters to all foreign countries. Also the number of international reply coupons for sufficient postage for a return air mail letter is shown for most countries.

WORLD WIDE QSL BUREAUS

A complete list of all of the International QSL Bureaus, right up to date, are shown, compiled from the records of the CALLBOOK.

ARRL COUNTRIES LIST

Official list of ARRL DX contest and postwar DXCC. Courtesy ARRL.

DX CONTEST AND FIELD DAY LOG

This section contains a log that can be used either for a DX contest or the annual ARRL field day.

COMPASS ROSE

How often have you wanted a compass for that rotary beam indicator? Two compass roses are provided. One with white background and no printing on the reverse side of the sheet. The other has a black background. Both are graduated for 360 degrees.

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